

# EUROPEAN PATENT OFFICE

## Patent Abstracts of Japan

PUBLICATION NUMBER : 10197572  
PUBLICATION DATE : 31-07-98

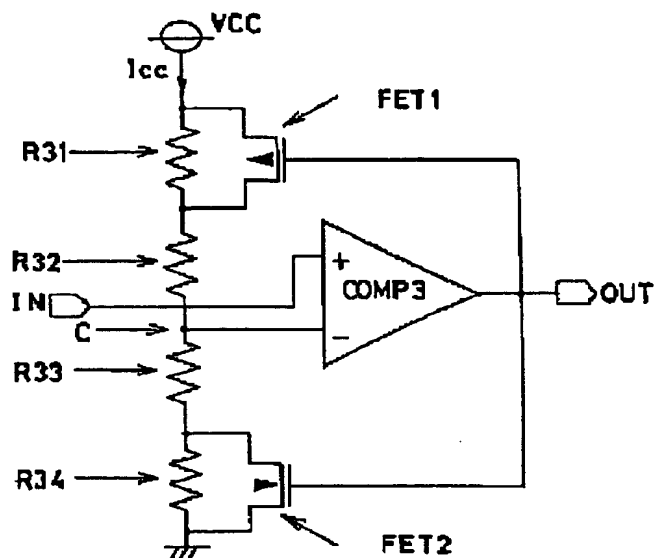
APPLICATION DATE : 07-01-97  
APPLICATION NUMBER : 09000939

APPLICANT : NISSAN MOTOR CO LTD;

INVENTOR : KIYOTA SHIGEYUKI;

INT.CL. : G01R 19/165 H03K 5/08

TITLE : HYSTERESIS COMPARATOR



**ABSTRACT :** PROBLEM TO BE SOLVED: To reduce electric power consumption by respectively connecting short-circuit means to a power source side resistance and a grounding side resistance of a reference power source generating circuit, short-circuiting the short-circuit means by a short-circuit signal from a comparator, and generating hysteresis.

**SOLUTION:** An FET 1 and an FET 2 being short-circuit means are respectively connected to both ends of a power source side resistance R31 and a grounding side resistance R34 of a reference voltage generating circuit, and both gates of the FETs 1 and 2 are connected to the output end of a comparator 3. By constituting these in this way, the FETs 1 and 2 mutually and inversely operate according to output of the comparator 3, and generate hysteresis by short-circuiting respective both ends of resistances 31 and 34. Therefore, a constant current source to generate the hysteresis is not required, and since there is no large change in a resistance value caused by generation of the hysteresis, electric power consumption can be reduced.

COPYRIGHT: (C)1998,JPO

BEST AVAILABLE COPY